

SLOVENSKI STANDARD

SIST EN 3155-031:2009

01-februar-2009

Aeronavtika - Električni kontakti za uporabo v veznih elementih - 031. del:
Kontakti, električni, koaksialni, oklopljeni, velikost 12, ženski, tip D, nagubani,
razred R - Standard za proizvod

Aerospace series - Electrical contacts used in elements of connection - Part 031:
Contacts, electrical, coaxial, shielded, size 12, female, type D, crimp, class R - Product
standard

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen -
Teil 031: Elektrische koaxiale Buchsenkontakte, geschirmt, Größe 12, Typ D, crimpbar,
Klasse R - Produktnorm

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie
031 : Contacts électriques coaxiaux, blindés, taille 12, femelles, type D, à sertir, classe R
- Norme de produit

Ta slovenski standard je istoveten z: EN 3155-031:2006

ICS:

49.060

Letalska in vesoljska
električna oprema in sistemi

Aerospace electric
equipment and systems

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EUROPEAN STANDARD
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EN 3155-031

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English Version

Aerospace series - Electrical contacts used in elements of connection - Part 031: Contacts, electrical, coaxial, shielded, size 12, female, type D, crimp, class R - Product standard

Série aérospatiale - Contacts électriques utilisés dans les organes de connexion - Partie 031 : Contacts électriques coaxiaux, blindés, taille 12, femelles, type D, à sertir, classe R - Norme de produit

Luft- und Raumfahrt - Elektrische Kontakte zur Verwendung in Verbindungselementen - Teil 031: Elektrische koaxiale Buchsenkontakte, geschirmt, Grösse 12, Typ D, crimpbar, Klasse R - Produktnorm

This European Standard was approved by CEN on 21 July 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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Foreword

This document (EN 3155-031:2006) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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Introduction

The contacts defined by this standard are derived from those of MIL-C-39029/73, and intermateable with those of MIL-C-39029/74.

1 Scope

This standard specifies the required characteristics, tests and tooling applicable to female electrical coaxial contacts, shielded, size 12, type D, crimp, class R, used in elements of connection according to EN 3155-002.

It shall be used together with EN 3155-001.

The associated male contacts are defined in EN 3155-030 and EN 3155-040.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2591-*, *Aerospace series — Elements of electrical and optical connection — Test methods.*

EN 3155-001, *Aerospace series — Electrical contacts used in elements of connection — Part 001: Technical specification.* ¹⁾

EN 3155-002, *Aerospace series — Electrical contacts used in elements of connection — Part 002: List and utilization of contacts.*

EN 3155-030, *Aerospace series — Electrical contacts used in elements of connection — Part 030: Contacts, electrical, coaxial, shielded, size 12, male, type D, crimp, class R — Product standard.*

EN 3155-040, *Aerospace series — Electrical contacts used in elements of connection — Part 040: Contacts, electrical, coaxial, size 12, male, type D, solder, class R — Product standard.*

EN 3682-001, *Aerospace series — Connectors, plug and receptacle, electrical, rectangular, interchangeable insert type, rack to panel, operating temperature 150 °C continuous — Part 001: Technical specification.*

EN 4008-013, *Aerospace series — Elements of electrical and optical connection — Crimping tools and associated accessories — Part 013: Positioner for crimping tool M22520/2-01 — Product standard.*

EN 4008-014, *Aerospace series — Elements of electrical and optical connection — Crimping tools and associated accessories — Part 014: Turret for crimping tool M22520/31-01 — Product standard.*

MIL-DTL-22520, *Crimping tools, terminal, hand or power actuated, wire termination, and tool kits general specification for.* ²⁾

* All parts quoted in this standard.

1) Published as ASD Prestandard at the date of publication of this standard.

2) Published by: Department of Defense (DOD), The Pentagon, Washington D.C. 20301, USA.

MIL-C-39029/73, *Contacts, electrical connectors, socket, solder, removable, shielded, (for MIL-C-83723 series 3, MIL-C-26482 series 2 and MIL-C-83733 connectors).* ²⁾

MIL-C-39029/74, *Contacts, electrical connectors, pin, solder, removable, shielded, (for MIL-C-83723 series 3, MIL-C-26482 series 2, MIL-C-83733 connectors).* ²⁾

MIL-I-81969/14, *Installing and removal tools, connector electrical contact, type III, class 2, composition B.* ²⁾

TR 6058, *Aerospace series — Cable code identification list.* ³⁾

3 Terms and definitions

For the purposes of this standard, the terms and definitions given in EN 3155-001 apply.

4 Required characteristics

4.1 Specific characteristics

Type D contacts are for application where contacts with a screening feature are requested and class R corresponds to an operating temperature range from – 65 °C to 150 °C.

4.2 Dimensions and mass

See Figure 1.

Dimensions and tolerances are given in millimetres and apply after surface treatment.

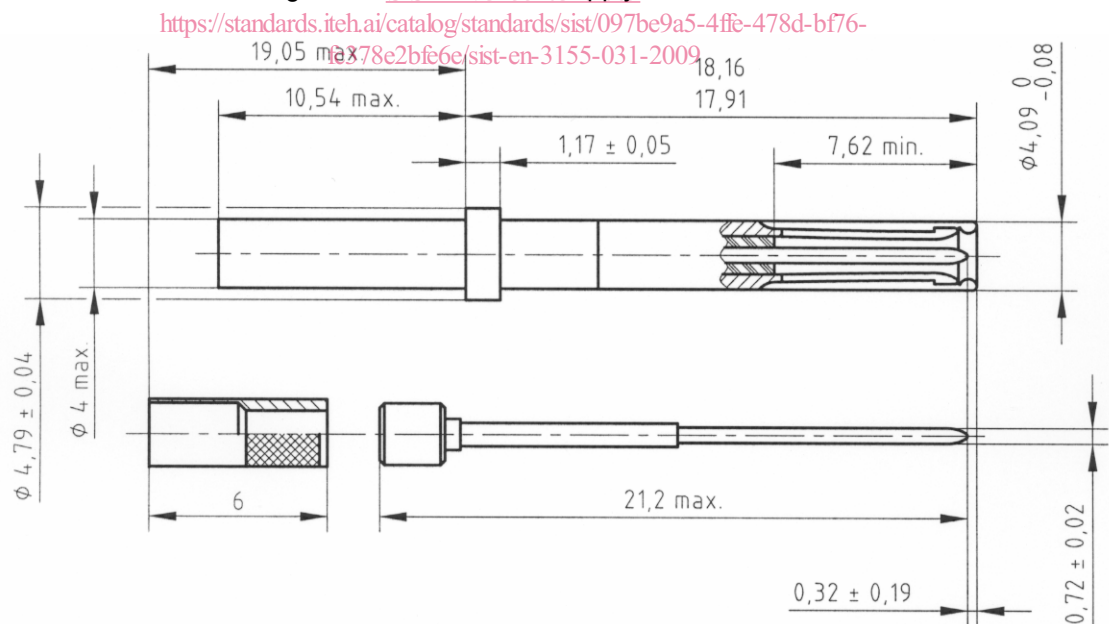


Figure 1

³⁾ Published as ASD Technical Report at the date of publication of this standard.

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4.3 Marking by colour code

Not applicable.

4.4 Material, surface treatment

- Outer body material (female): copper alloy.
- Centre contact (male) : copper alloy.
- Crimp ferrule : copper alloy.
- Surface treatment : gold on appropriate undercoat, thickness of protection not specified , selective protection permitted.
- Hood : stainless steel.
- Dielectric : PTFE or equivalent.

4.5 Permissible cables

See Figure 2 and Table 1.

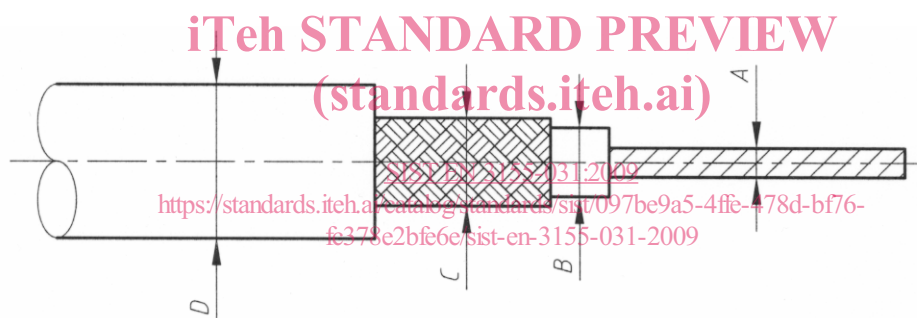


Figure 2

Table 1

Permissible cable group code	Permissible cable code according to TR 6058	Dimensions of cable							
		A		B		C		D	
		min.	max.	min.	max.	min.	max.	min.	max.
A	XY	0,28	0,33	1,52	1,68	2,00	2,20	2,41	2,67
B	XQ	0,48	0,53	1,44	1,60	1,90	2,10	2,40	2,60

4.6 Cable stripping and wiring method

See Figure 3.

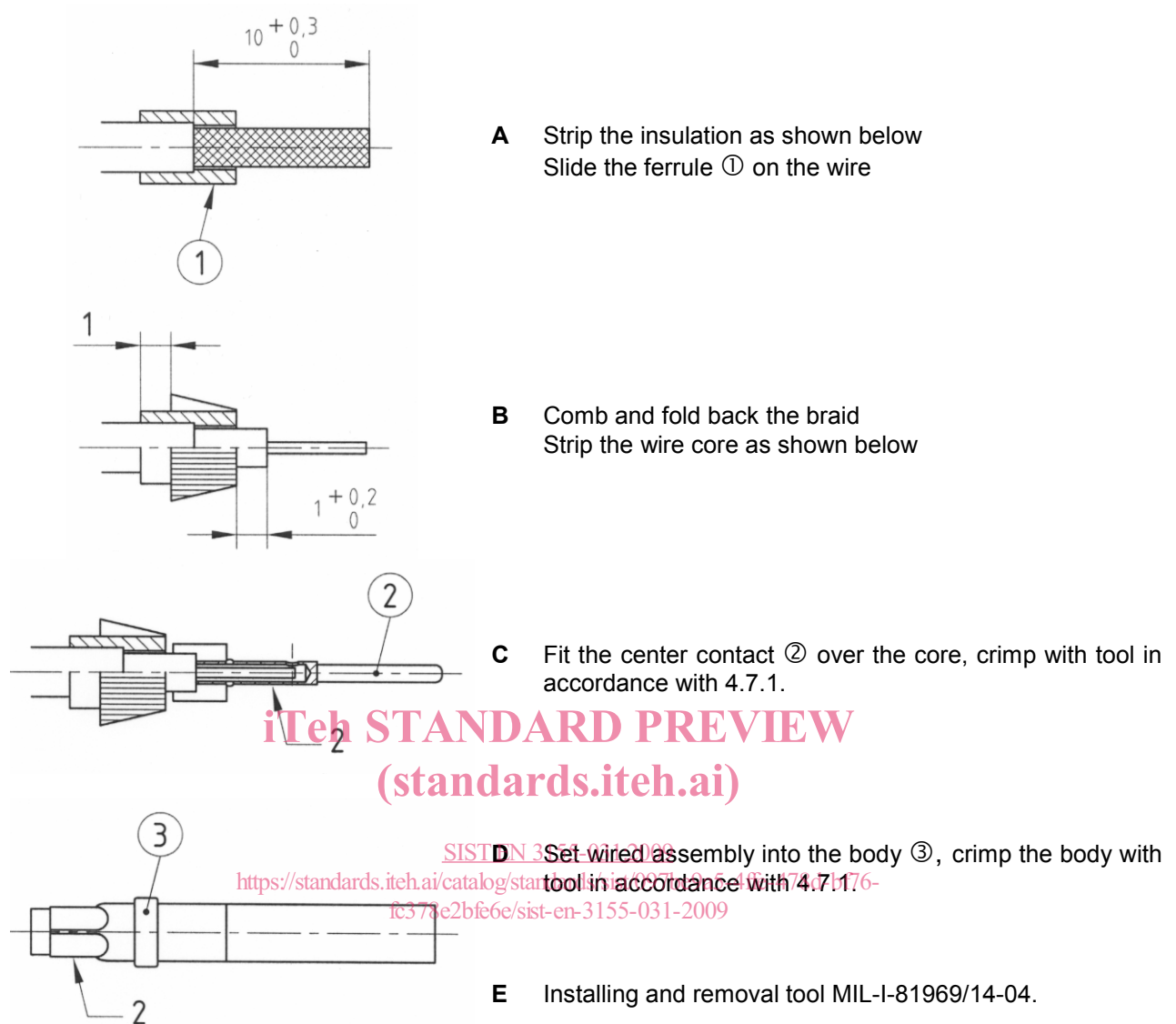


Figure 3

4.7 Tooling

4.7.1 Crimping tools

Conform to MIL-DTL-22520, see Table 2.

These selector numbers given in Table 2 shall be used for qualification of the contacts and in service, unless otherwise specified by the user.